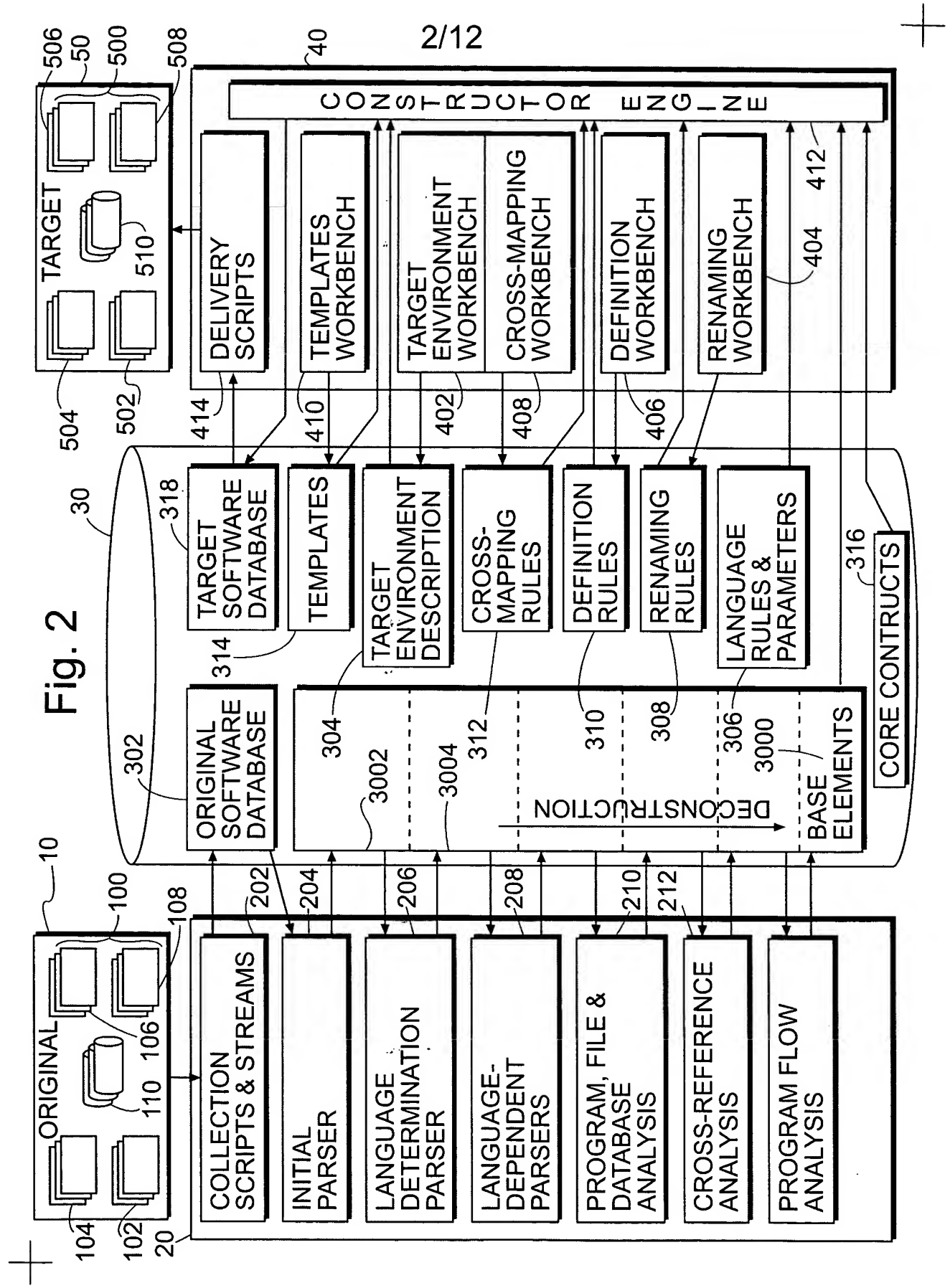


Fig. 1



----- AREA LISTING -----

RECORD

60 640

AREA RECORD RECORD NAME MIG-BCCN-AREA MIG-BCCN MIG-BCNENT ID 1002 1006

END OF REPORT

62

-- SCHEMA RECORD DESCRIPTION LISTING --

646 RECORD NAME..... MIG-BCCN RLGTH= 325 645

RECORD VERSION..... 0001 DLGTH= 269

RECORD ID..... 1002 KLGTH= 56

RECORD LENGTH..... FIXED DSTRT= 56

LOCATION MODE..... CALC USING MIG-BCCN-NUMBER

644 WITHIN..... MIG-BCCN-AREA OFFSET

DBKEY POSITIONS..... SET..... TYPE..... NEXT

650 CALC MEMBER 1 2

MIG-DATE-BCCN MEMBER 3 4 5

MIG-PGMR-BCCN MEMBER 6 7 8

MIG-SYST-BCCN MEMBER 11 12 13

MIG-IXBCCN INDEX MEMBER 14

MIG-BCCN-ENTY OWNER 9 10

652

DATA ITEM REDEFINES. USAGE... VALUE..... PICTURE... STRT LGTH

05 MIG-BCCN-NUMBER DISPLAY 9(5) 1 5

660 SET CONTROL ITEM FOR ----- CALC ASC DUP NOT ALLOWED

SET CONTROL ITEM FOR ----- MIG-DATE-BCCN DSC DUP NOT ALLOWED

SET CONTROL ITEM FOR ----- MIG-PGMR-BCCN DSC DUP NOT ALLOWED

SET CONTROL ITEM FOR ----- MIG-IXBCCN ASC DUP NOT ALLOWED

662 05 MIG-BCCN-STATUS DISPLAY X(1) 6 1

05 MIG-BCCN-START-DATE DISPLAY X(8) 7 8

05 MIG-BCCN-CANCEL-DATE DISPLAY X(8) 15 8

05 MIG-BCCN-CV2-DATE DISPLAY X(8) 23 8

05 MIG-BCCN-CV1-DATE DISPLAY X(8) 31 8

05 MIG-BCCN-APPLICATION DISPLAY X(8) 39 8

05 MIG-BCCN-COMMENTS DISPLAY 47 160

10 MIG-BCCN-COMMENT-LINE DISPLAY OCCURS 2 X(80) 47 160

05 MIG-BCCN-OPEN-TYPE DISPLAY X(1) 207 1

05 MIG-BCCN-JOB DISPLAY 9(4) 208 4

05 MIG-BCCN-JOBID DISPLAY X(8) 212 8

05 MIG-BCCN-APPROVED DISPLAY X(8) 220 8

05 MIG-BCCN-PROMOTED DISPLAY X(8) 228 8

05 MIG-BCCN-APP-DATE DISPLAY X(8) 236 8

05 MIG-BCCN-APP-TIME DISPLAY X(6) 244 6

05 MIG-BCCN-PRO-DATE DISPLAY X(8) 250 8

05 MIG-BCCN-PRO-TIME DISPLAY X(6) 258 6

642 05 MIG-BCCN-FILLER DISPLAY X(6) 264 6

66

64

RECORD NAME..... MIG-BCNENT RLGTH= 88

RECORD VERSION..... 0001 DLGTH= 64

RECORD ID..... 1006 KLGTH= 24

RECORD LENGTH..... FIXED DSTRT= 24

LOCATION MODE..... VIA SET MIG-BCCN-ENTY DISPLACEMENT 0000 PAGES

WITHIN..... MIG-BCCN-AREA OFFSET 0 PCT FOR 100 PCT

DBKEY POSITIONS..... SET..... TYPE..... NEXT PRIOR OWNER

MIG-BCCN-ENTY MEMBER 1 2 3

MIG-ENTY-ENTY MEMBER 4 5 6

DATA ITEM REDEFINES. USAGE... VALUE..... PICTURE... STRT LGTH

05 MIG-BCCN-ENTITY-KEY DISPLAY 1 35

10 MIG-BCCN-ENTITY-NAME DISPLAY X(32) 1 32

SET CONTROL ITEM FOR ----- MIG-BCCN-ENTY ASC DUP LAST

10 MIG-BCCN-ENTITY-VERSION DISPLAY 9(3) 33 3

SET CONTROL ITEM FOR ----- MIG-BCCN-ENTY ASC DUP LAST

05 MIG-BCCN-ENTITY DISPLAY 9(5) 36 5

SET CONTROL ITEM FOR ----- MIG-ENTY-ENTY ASC DUP NOT ALLOWED

05 MIG-BCCN-XREF DISPLAY 9(5) 41 5

05 MIG-ENTY-STATUS DISPLAY X(1) 46 1

05 MIG-ENTY-PREV-STATUS DISPLAY X(1) 47 1

05 MIG-ENTY-PUNCH DISPLAY X(1) 48 1

05 MIG-BCCN-ENTITY-FILLER DISPLAY X(16) 49 16

END OF REPORT

Fig. 3

module id	table name	column name	key type	column datatype	column picture	key seq	key description	from table	colob element	colob usage	colob picture	idms record name
0213085152	MIG_BCCN	MIG_APPL_NAME	PKNF	CHAR	(8)	-500	FOREIGN KEY CREATED FROM KEY OF TABLE MIG_SYST	MIG_SYST	MIG-APPL-NAME	DISPLAY	X(8)	
0213085152	MIG_BCCN	MIG_BCCN_NUMBER	PK	INT	(5)	-1000	CALC KEY TO PRIMARY KEY FOR RECORD MIG-BCCN		MIG-BCCN-NUMBER	DISPLAY	9(5)	
0213085152	MIG_BCCN	MIG_DATE_BCCN	QWNF	CHAR	(1)	-200	ADDED FOR NON-MANDATORY SET MIG-DATE-BCCN		MIG-DATE	DISPLAY	X	
0213085152	MIG_BCCN	MIG_PGMR_BCCN	QWNF	CHAR	(1)	-200	ADDED FOR NON-MANDATORY SET MIG-PGMR-BCCN		MIG-PGMR	DISPLAY	X	
0213085152	MIG_BCCN	MIG_SYST_BCCN_N	NXNF	INT	(10)	-5	ADDED FOR NEXT SEQUENCE ON NEXT SET MIG-SYST-BCCN		MIG-SYST-BCCN	DISPLAY	S9(10)	
0213085152	MIG_BCCN	MIG_SYST_BCCN_P	PRNF	INT	(10)	-4	ADDED FOR PRIOR SEQUENCE ON NEXT SET MIG-SYST-BCCN		MIG-SYST-BCCN	DISPLAY	S9(10)	
0213085152	MIG_BCCN	MIG_BCCN_ENTITY_NAME	PK	CHAR	(32)	-750	PRIMARY KEY CREATED FROM SORTED SET MIG-BCCN-ENTITY		MIG-BCCN-ENTITY-NAME	DISPLAY	X(32)	
0213085152	MIG_BCCN	MIG_BCCN_ENTITY_VERSION	PK	SMALLINT	(3)	-748	PRIMARY KEY CREATED FROM SORTED SET MIG-BCCN-ENTITY		MIG-BCCN-ENTITY-VERSION	DISPLAY	9(3)	
0213085152	MIG_BCCN	MIG_BCCN_NUMBER	PK	INT	(5)	-500	FOREIGN KEY CREATED FROM KEY OF TABLE MIG_BCCN		MIG-BCCN-NUMBER	DISPLAY	9(5)	
0213085152	MIG_BCCN	MIG_BCCN_NUMBER	PKNF	INT	(5)	-499	PRIMARY KEY CREATED FROM KEY OF TABLE MIG_BCCN		MIG-BCCN-NUMBER	DISPLAY	9(5)	
0213085152	MIG_BCCN	MIG_ENTITY_NAME	FKNF	CHAR	(32)	-497	FOREIGN KEY CREATED FROM KEY OF TABLE MIG_ENTITY		MIG-ENTITY-NAME	DISPLAY	X(32)	
0213085152	MIG_BCCN	MIG_ENTITY_TYPE	FKNF	CHAR	(3)	-497	FOREIGN KEY CREATED FROM KEY OF TABLE MIG_ENTITY		MIG-ENTITY-TYPE	DISPLAY	X(3)	
0213085152	MIG_BCCN	MIG_ENTITY_VERSION	FKNF	SMALLINT	(3)	-498	FOREIGN KEY CREATED FROM KEY OF TABLE MIG_ENTITY		MIG-ENTITY-VERSION	DISPLAY	9(3)	
0213085152	MIG_BCCN	MIG_ENTITY_VERSION	PKNF	INT	(10)	-748	ADDED FOR DUPLICATES ON SORTED SET MIG-BCCN-ENTITY		MIG-ENTITY-VERSION	DISPLAY	S9(10)	

module id	set name	set owner	set member	member duplicates	member key	row number	set options
0213085152	CALC	SRI	MIG-BCCN	N	MIG-BCCN-NUMBER-ASC	535 MA	
0213085152	DBS-SET-21	MIG-BCCN	MIG-DATE-BCCN	N	MIG-BCCN-NUMBER-DSC	-1 MA	
0213085152	DBS-SET-22	MIG-DATE	MIG-DATE-BCCN	N	MIG-BCCN-NUMBER-DSC	-1 MA	
0213085152	DBS-SET-23	MIG-BCCN	MIG-PGMR-BCCN	N	MIG-BCCN-NUMBER-DSC	-1 MA	
0213085152	DBS-SET-24	MIG-PGMR	MIG-PGMR-BCCN	N	MIG-BCCN-NUMBER-DSC	-1 MA	
0213085152	MIG-BCCN-ENTITY	MIG-BCCN	MIG-BCCN	L	MIG-BCCN-ENTITY-NAME-ASC	598 MA	
0213085152	MIG-DATE-BCCN	MIG-DATE	MIG-BCCN	N	MIG-BCCN-NUMBER-DSC	574 OM	
0213085152	MIG-ENTITY-ENTITY	MIG-ENTITY	MIG-BCCN	N	MIG-BCCN-ENTITY-ASC	603 MA	
0213085152	MIG-IXARCH-BCCN	SYSTEM	MIG-ARCH-HDR	N	MIG-BCCN-ASC ARCH-ENTNAME-ASC ARCH-ENTTYPE-ASC	645 MA	
0213085152	MIG-IXARCH-BCCN	MIG-IXARCH	MIG-BCCN	N	MIG-BCCN-NUMBER-ASC	668 MA	
0213085152	MIG-PGMR-BCCN	MIG-PGMR	MIG-BCCN	N	MIG-BCCN-NUMBER-DSC	581 OM	
0213085152	MIG-SYST-BCCN	MIG-SYST	MIG-BCCN	N	MIG-BCCN-NUMBER-DSC	610 MA	

728 724 726 725 723

module id	table name	index name	column name	key seq	key description	duplicates allowed	element name	column datatype	colob picture	colob usage
0213085152	MIG_ARCH_HDR	MIG-IXARCH-BCCN	ARCH_BCCN	-250	INDEX CREATED FROM SORTED SET MIG-IXARCH-BCCN	N		INT	9(5) ASC	
0213085152	MIG_ARCH_HDR	MIG-IXARCH-BCCN	ARCH_ENTNAME	-249	INDEX CREATED FROM SORTED SET MIG-IXARCH-BCCN	N		CHAR	X(32) ASC	
0213085152	MIG_ARCH_HDR	MIG-IXARCH-BCCN	ARCH_ENTTYPE	-247	INDEX CREATED FROM SORTED SET MIG-IXARCH-BCCN	N		CHAR	X(3) ASC	
0213085152	MIG_ARCH_HDR	MIG-IXARCH-BCCN	ARCH_ENTVER	-248	INDEX CREATED FROM SORTED SET MIG-IXARCH-BCCN	N		SMALLINT	9(3) ASC	
0213085152	MIG_BCCN	MIG-BCCN	MIG_BCCN_NUMBER	-250	INDEX CREATED FROM SORTED SET MIG-BCCN	N		INT	9(5) ASC	
0213085152	MIG_BCCN	MIG-BCCN-ENTITY	MIG_BCCN_ENTITY_NAME	-250	INDEX CREATED FROM SORTED SET MIG-BCCN-ENTITY	N		CHAR	X(32) ASC	
0213085152	MIG_BCCN	MIG-BCCN-ENTITY	MIG_BCCN_ENTITY_VERSION	-249	INDEX CREATED FROM SORTED SET MIG-BCCN-ENTITY	N		SMALLINT	9(3) ASC	
0213085152	MIG_BCCN	MIG-BCCN-ENTITY	MIG_BCCN_ENTITY	-250	INDEX CREATED FROM SORTED SET MIG-BCCN-ENTITY	N		INT	9(5) ASC	
0213085152	MIG_BCCN	MIG_BCCN	MIG_BCCN_NUMBER	-250	INDEX CREATED FROM SORTED SET DBS-SET-21	N		INT	9(5) DSC	
0213085152	MIG_PGMR_BCCN	DBS-SET-23	MIG_BCCN_NUMBER	-250	INDEX CREATED FROM SORTED SET DBS-SET-22	N		INT	9(5) DSC	
0213085152	MIG_PGMR_BCCN	DBS-SET-24	MIG_BCCN_NUMBER	-250	INDEX CREATED FROM SORTED SET DBS-SET-24	N		INT	9(5) DSC	

module id	set name	set mode	set order	row number	included
0213085152	MIG-BCCN-ENTITY	CHAIN	SORTED	598	
0213085152	MIG-DATE-BCCN	CHAIN	SORTED	587 N	
0213085152	MIG-ENTITY-ENTITY	CHAIN	SORTED	598	
0213085152	MIG-IXARCH-BCCN	INDEX	SORTED	635	
0213085152	MIG-IXBCCN	INDEX	SORTED	659	
0213085152	MIG-PGMR-BCCN	CHAIN	SORTED	574 N	
0213085152	MIG-SYST-BCCN	CHAIN	NEXT	603	

Fig. 6


```

*****
***      COBOL SYNTAX      METADATA FOR %idmsrecordname%
*****
3152  ***      IDMS RECORD      : %idmsrecordname%
***      RELATIONAL TABLE : %tablename%
***      SHORT TABLE ID   : %ttt%
$IF RECORD-IS-CALC
$IF CALC-DUPLICATES-ALLOWED
3147  ***      %idmsrecordname% IS STORED CALC DUPS ALLOWED
***      DUPS ARE STORED (%idmsstoragemode%)
$ELSE
***      %idmsrecordname% IS STORED CALC, DUPS NOT ALLOWED
$END-IF
3148  ***      CALC FIELD(S): (APP BUFFER / DCLGEN FIELD)
$LOOP IDMS-CALC-FIELDS
***      >> %idmsfield% / %fieldddclgen%
$END-LOOP
$END-IF
***      PRIME KEYS OF TABLE:
$LOOP MEM-PK-KEYS
***      >> %memddclgenprefix%%fieldddclgen%
$END-LOOP
***      ID COL   IN TABLE : %idcolddclgen%
***      IN RECORD : %idcoltable%
$IF ID-COLUMN-IN-PRIMEKEY
3142  ***      ID COL IS IN PRIME KEYS
$ELSE
3149  ***      ID COL IS NOT IN PRIME KEYS
$END-IF
$LOOP LIST-ALL-MEMBER
$INSERT POWERSKEL DEMO,POWERSKEL DEMO - COBOL META DATA MEMBER
$END-LOOP
3154  ***      END OF METADATA FOR THIS PROGRAM %today%.
3146  *****
$LOOP LIST-ALL-MEMBER
3144  $IF LIST-IS-NOT-MANDATORY
$IF LIST-IS-AUTOMATIC
***      SET MEMBERSHIP SWITCH FOR %LL% TO "Y"
***      MOVE 'Y' TO %memddclgenprefix%%membelongsflagddclgen% OF %ddclgen01level%.
$ELSE
***      SET MEMBERSHIP SWITCH FOR %LL% TO "N"
***      MOVE 'N' TO %memddclgenprefix%%membelongsflagddclgen% OF %ddclgen01level%.
$END-IF
3143  $END-IF
$END-LOOP
3140

```

Fig. 8


```

$POWERSKEL DEMO,POWERSKEL DEMO - COBOL META DATA MEMBER
***
*** MEMBER IN SET: %idmssetname% (SHORT ID IS %11%)
$IF LIST-IS-RECORD-OWNED
*** OWNER : %owntablename% (%owntablesshortid%)
$ELSE
*** SET HAS NO OWNER
$END-IF
*** MEMBERSHIP : %optormandatory% %autoormanual%
*** : %multiorsingle%
*** : %storageorder%
$IF LIST-HAS-JUNCTION
*** PARTICIPATION FLG : %memdcngenprefix%%membelongsflagdcngen%
*** JUNCTION TABLE : %optdcngen01level% (%opttablesshortid%)
$ELSE
$IF LIST-IS-MANDATORY
$ELSE
*** PARTICIPATION FLG : %memdcngenprefix%%membelongsflagdcngen%
$END-IF
$END-IF
$IF LIST-IS-SORTED
*** SORT FIELDS
$LOOP IDMS-SORT-FIELDS
*** : (%descorasc%) %idmsfield%
$END-LOOP
$IF LIST-HAS-SEQUENCE
*** SEQUENCE FIELD IS : %seqcolumn%
$END-IF
$END-IF
$IF LIST-IS-LINKLIST
*** LINKLIST POINTERS
*** NEXT: %memdcngenprefix%%memnextpointer%
*** PRIOR: %memdcngenprefix%%mempriorpointer%
$END-IF

```

3150

Fig. 9

10/12

```

*****
***      COBOL SYNTAX      METADATA FOR MIG-BCCN
*****
***      IDMS RECORD       : MIG-BCCN
***      RELATIONAL TABLE : MIG_BCCN
***      SHORT TABLE ID   : G006
5102 { ***      MIG-BCCN IS STORED CALC, DUPS NOT ALLOWED
***      CALC FIELD(S): (APP BUFFER / DCLGEN FIELD)
***      >> MIG-BCCN-NUMBER / G006-BC-NBR
***      PRIME KEYS OF TABLE:
***      >> G006-BC-NBR
***
***      ID COL   IN TABLE : G006-DBS-ID-COL
***      IN RECORD : DBS ID COL
***      ID COL IS NOT IN PRIME KEYS
***
5104 { ***      MEMBER IN SET: MIG-DATE-BCCN (SHORT ID IS P006)
***      OWNER           : MIG DATE (G009)
***      MEMBERSHIP      : OPTIONAL MANUAL
***                      : SINGLE-MEMBER
***                      : SORTED-DN
***      PARTICIPATION FLG : G006-MIG-DTE-BCCN
***      JUNCTION TABLE  : DCLMIG-DATE-BCCN (G010)
***      SORT FIELDS      : (DESC) MIG-BCCN-NUMBER
***
5106 { ***      MEMBER IN SET: MIG-IXBCCN (SHORT ID IS P015)
***      SET HAS NO OWNER
***      MEMBERSHIP      : MANDATORY AUTOMATIC
***                      : SINGLE-MEMBER
***                      : SORTED-DN
***      SORT FIELDS      : (ASC) MIG-BCCN-NUMBER
***
5108 { ***      MEMBER IN SET: MIG-PCMR-BCCN (SHORT ID IS P022)
***      OWNER           : MIG PGMR (G017)
***      MEMBERSHIP      : OPTIONAL MANUAL
***                      : SINGLE-MEMBER
***                      : SORTED-DN
***      PARTICIPATION FLG : G006-PM-BCCN
***      JUNCTION TABLE  : DCLMIG-PGMR-BCCN (G018)
***      SORT FIELDS      : (DESC) MIG-BCCN-NUMBER
***
5110 { ***      MEMBER IN SET: MIG-SYST-BCCN (SHORT ID IS P023)
***      OWNER           : MIG SYST (G019)
***      MEMBERSHIP      : MANDATORY AUTOMATIC
***                      : SINGLE-MEMBER
***                      : NEXT
***      LINKLIST POINTERS
***      NEXT:           G006-SY-BCCN-N
***      PRIOR:          G006-SY-BCCN-P
5112 {
***
***      END OF METADATA FOR THIS PROGRAM 03/28/04
*****

***      SET MEMBERSHIP SWITCH FOR P006 TO "N"
***
***      MOVE 'N' TO G006-MIG-DTE-BCCN OF DCLMIG-BCCN.
***      SET MEMBERSHIP SWITCH FOR P022 TO "N"
***
***      MOVE 'N' TO G006-PM-BCCN OF DCLMIG-BCCN.

```

Fig. 10

11/12

```
*****
***          COROL SYNTAX      METADATA FOR MIG-BCNENT
*****
*** IDMS RECORD      : MIG-BCNENT
*** RELATIONAL TABLE : MIG BCNENT
*** SHORT TABLE ID  : G007
*** PRIME KEYS OF TABLE:
***          >> G007-BC-NBR
***          >> G007-D-MIG-BCNENT
***          >> G007-BC-ENTITY-NAM
***          >> G007-BC-ENTITY-VERSION
***
*** ID COL  IN TABLE : G007-D-MIG-BCNENT
***          IN RECORD : D MIG BCNENT
***          ID COL IS IN PRIME KEYS
***
*** MEMBER IN SET: MIG-BCCN-ENTY (SHORT ID IS P005)
*** OWNER          : MIG BCCN (G006)
*** MEMBERSHIP     : MANDATORY AUTOMATIC
***                : SINGLE-MEMBER
***                : SORTED-DL
***
*** SORT FIELDS
***                : (ASC) MIG-BCCN-ENTITY-NAME
***                : (ASC) MIG-BCCN-ENTITY-VERSION
***
*** MEMBER IN SET: MIG-ENTY-ENTY (SHORT ID IS P008)
*** OWNER          : MIG ENTY (G012)
*** MEMBERSHIP     : MANDATORY AUTOMATIC
***                : SINGLE-MEMBER
***                : SORTED-DN
***
*** SORT FIELDS
***                : (ASC) MIG-BCCN-ENTITY
***
***          END OF METADATA FOR THIS PROGRAM 03/28/04
*****
```

5112

5100

Fig. 11

 %idmsrecordname% (%tablename%) DEFINITION

The IDMS record %idmsrecordname% is converted to a DB2 table called %tablename% during the conversion process. Throughout the newly generated code that uses the replacement table for the %idmsrecordname% record, a short ID of "%tt%" is used to reference the table.

\$IF RECORD-IS-CALC

\$IF CALC-DUPPLICATES-ALLOWED

The IDMS record %idmsrecordname% was stored CALC with duplicates allowed. Each IDMS record occurrence that has the same CALC key was stored in IDMS as "%idmsstoragemode%". "DF" indicates that the new occurrences are stored "first", before all other occurrences. "DL" indicates that the new occurrences are stored "last", after all other occurrences.

\$ELSE

The IDMS record %idmsrecordname% was stored CALC with duplicates not allowed. Each IDMS record occurrence with a specified CALC key can appear in the database only once.

\$END-IF

The CALC key fields for the IDMS %idmsrecordname% record type are listed below. The related column name in the new DB2 table (%tablename%) which replaces the IDMS field name are listed in the second column:

CALC IDMS Field Name (DB2 Column Name)

\$LOOP IDMS-CALC-FIELDS

%idmsfield% (%fielddcngen%)

\$END-LOOP

\$END-IF

The unique primary key columns for the new %tablename% table in DB2 are:

DB2 Unique Primary Key

\$LOOP MEM-PK-KEYS

%memdcngenprefix%%fielddcngen%

\$END-LOOP

Fig. 12